

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A compound selected from the group consisting of:
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-nitro-phenyl)-amine [1];
~~N-[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-N',N'-dimethyl-benzene-1,4-diamine [2];~~
~~[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-chloro-phenyl)-amine [3];~~
~~[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-methoxy-phenyl)-amine [4];~~
~~[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-fluoro-phenyl)-amine [5];~~
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-trifluoromethyl-phenyl)-amine [7];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-methoxy-phenyl)-amine [8];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-chloro-phenyl)-amine [9];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-iodo-phenyl)-amine [10];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-iodo-phenyl)-amine [11];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-fluoro-phenyl)-amine [12];
~~3-[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-ylamino]-phenol [13];~~
~~[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-iodo-3-nitro-phenyl)-amine [14];~~
~~2-{4-[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-ylamino]-phenyl}-ethanol [15];~~
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-bromo-phenyl)-amine [16];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-bromo-phenyl)-amine [17];
~~[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-chloro-3-trifluoromethyl-phenyl)-amine [18];~~
~~N⁺[4-(2,4-Dimethyl-thiazol-5-yl)-pyrimidin-2-yl]-4-[β-(phenoxy)-triethylamine]-amine [20];~~
~~2-{4-[4-(2,4-Dimethyl-thiazol-5-yl)-pyrimidin-2-ylamino]-phenyl}-ethanol [21];~~
~~2-{4-[4-(2,4-Dimethyl-thiazol-5-yl)-pyrimidin-2-ylamino]-phenyl}-ethyl-amino-ethanol [22];~~
(3,4-Dimethoxy-phenyl)-[4-(2,4-dimethyl-thiazol-5-yl)-pyrimidin-2-yl]-amine [23];
5-[4-(2,4-Dimethyl-thiazol-5-yl)-pyrimidin-2-ylamino]-2-methoxy-phenol [24];

~~N⁴-[4 (2,4 Dimethyl thiazol 5-yl) pyrimidin 2-yl]-N¹,N¹-dimethyl 2-nitro benzene-1,4-diamine [25];~~
~~2-[N-(4 N,N-Dimethylamino 3-chlorophenyl)]-4 (2,4 dimethylthiazol 5-yl)-pyrimidineamine [26];~~
~~N⁴-[4 (2,4 Dimethyl thiazol 5-yl) pyrimidin 2-yl]-N¹,N¹-dimethyl 2-trifluoromethyl benzene-1,4-diamine [27];~~
~~N¹-[4 (2,4 Dimethyl thiazol 5-yl) pyrimidin 2-yl]-4-methoxy-N³,N³-dimethyl benzene-1,3-diamine [28];~~
~~N,N-Dimethyl N'-[4 (4-methyl 2-methylamino thiazol 5-yl) pyrimidin 2-yl] benzene-1,4-diamine [29];~~
~~(4-Iodo 3-nitro-phenyl)-[4 (4-methyl 2-methylamino thiazol 5-yl) pyrimidin 2-yl]-amine [30];~~
~~4-[4 (2-Methoxy 4-methyl thiazol 5-yl) pyrimidin 2-ylamino]-phenol [31];~~
~~[4 (2-Methoxy 4-methyl thiazol 5-yl) pyrimidin 2-yl]-(3-nitro-phenyl)-amine [32];~~
~~(4-Iodo-phenyl)-[4 (2-methoxy 4-methyl thiazol 5-yl) pyrimidin 2-yl]-amine [33];~~
~~(4-Fluoro-phenyl)-[4 (2-methoxy 4-methyl thiazol 5-yl) pyrimidin 2-yl]-amine [34];~~
~~(4-Chloro-phenyl)-[4 (2-methoxy 4-methyl thiazol 5-yl) pyrimidin 2-yl]-amine [35];~~
~~[4 (2-Methoxy 4-methyl thiazol 5-yl) pyrimidin 2-yl]-(4-methoxy-phenyl)-amine [36];~~
~~3-[4 (2-Methoxy 4-methyl thiazol 5-yl) pyrimidin 2-ylamino]-phenol [37];~~
~~(4-Fluoro 3-nitro-phenyl)-[4 (2-methoxy 4-methyl thiazol 5-yl) pyrimidin 2-yl]-amine [38];~~
~~(4-Chloro 3-methyl-phenyl)-[4 (2-methoxy 4-methyl thiazol 5-yl) pyrimidin 2-yl]-amine [39];~~
~~(3-Iodo 4-methyl-phenyl)-[4 (2-methoxy 4-methyl thiazol 5-yl) pyrimidin 2-yl]-amine [40];~~
~~(4-Fluoro 3-methyl-phenyl)-[4 (2-methoxy 4-methyl thiazol 5-yl) pyrimidin 2-yl]-amine [41];~~
~~[4 (2-Methoxy 4-methyl thiazol 5-yl) pyrimidin 2-yl]-(4-methyl 3-nitro-phenyl)-amine [42];~~
~~N-[4 (2-Methoxy 4-methyl thiazol 5-yl) pyrimidin 2-yl]-N',N'-dimethyl benzene-1,4-diamine [43];~~
~~[4 (2-Ethylamino 4-methyl thiazol 5-yl) pyrimidin 2-yl]-(3-nitro-phenyl)-amine [44];~~
~~(4-Chloro-phenyl)-[4 (2-ethylamino 4-methyl thiazol 5-yl) pyrimidin 2-yl]-amine [45];~~
~~[4 (2-Ethylamino 4-methyl thiazol 5-yl) pyrimidin 2-yl]-(4-trifluoromethyl-phenyl)-amine [47];~~

~~[4-(2-Ethylamino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-methoxy-phenyl)-amine [48];~~
~~(3-Chloro-phenyl)-[4-(2-ethylamino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-amine [49];~~
~~[4-(2-Ethylamino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-methyl-3-nitro-phenyl)-amine [50];~~
~~[4-(2-Butylamino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-fluoro-phenyl)-amine [51];~~
~~[4-(2-Dimethylamino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-nitro-phenyl)-amine [52];~~
~~(4-Chloro-phenyl)-[4-(2-dimethylamino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-amine [53];~~
~~[4-(2-Dimethylamino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-fluoro-phenyl)-amine [54];~~
~~(3-Chloro-phenyl)-[4-(2-dimethylamino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-amine [55];~~
N-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-yl}-methanesulfonamide [56];
2-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-ylamino}-ethanol [58];
2-{5-[2-(4-Fluoro-phenylamino)-pyrimidin-4-yl]-4-methyl-thiazol-2-ylamino}-ethanol [59];
2-Chloro-N-{4-methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-yl}-acetamide [60];
2-Chloro-N-{5-[2-(4-fluoro-phenylamino)-pyrimidin-4-yl]-4-methyl-thiazol-2-yl}-acetamide [61];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-nitro-phenyl)-amine [63];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(phenyl)-amine [64]; and
4-[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-benzenesulfonic acid [65]; or a pharmaceutically acceptable salt thereof
~~4-[4-(2,4-Dimethyl-thiazol-5-yl)-pyrimidin-2-ylamino]-benzenesulfonic acid [66].~~

2. **(Currently Amended)** A compound according to claim 1, selected from the group consisting of:

[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-nitro-phenyl)-amine [1];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-chloro-phenyl)-amine [9];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-iodo-phenyl)-amine [10];

~~3-[4 (2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-ylamino]-phenol [13];~~
~~[4 (2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-iodo-3-nitro-phenyl)-amine [14];~~
~~[4 (2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-bromo-phenyl)-amine [16];~~
~~(3,4-Dimethoxy-phenyl)-[4 (2,4-dimethyl-thiazol-5-yl)-pyrimidin-2-yl]-amine [23];~~
~~N⁴-[4 (2,4-Dimethyl-thiazol-5-yl)-pyrimidin-2-yl]-N¹,N¹-dimethyl-2-nitro-benzene-1,4-diamine [25];~~
~~2-[N-(4-N,N-Dimethylamino-3-chlorophenyl)]-4 (2,4-dimethylthiazol-5-yl)-pyrimidineamine [26];~~
~~N,N-Dimethyl-N'-[4 (4-methyl-2-methylamino-thiazol-5-yl)-pyrimidin-2-yl]-benzene-1,4-diamine [29];~~
~~4-[4 (2-Methoxy-4-methyl-thiazol-5-yl)-pyrimidin-2-ylamino]-phenol [31];~~
~~[4 (2-Methoxy-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-nitro-phenyl)-amine [32];~~
~~(4-Fluoro-phenyl)-[4 (2-methoxy-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-amine [34];~~
~~[4 (2-Methoxy-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-methyl-3-nitro-phenyl)-amine [42];~~
~~N-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-yl}-methanesulfonamide [56];~~
~~2-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-ylamino}-ethanol [58];~~
~~2-Chloro-N-{4-methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-yl}-acetamide [60]; and~~
~~2-Chloro-N-{5-[2-(4-fluoro-phenylamino)-pyrimidin-4-yl]-4-methyl-thiazol-2-yl}-acetamide [61], or a pharmaceutically acceptable salt thereof.~~

3. (Currently Amended) A compound according to claim 2, selected from the group consisting of:

~~3-[4 (2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-ylamino]-phenol [13];~~
~~[4 (2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-iodo-3-nitro-phenyl)-amine [14];~~
~~(3,4-Dimethoxy-phenyl)-[4 (2,4-dimethyl-thiazol-5-yl)-pyrimidin-2-yl]-amine [23];~~
~~N,N-Dimethyl-N'-[4 (4-methyl-2-methylamino-thiazol-5-yl)-pyrimidin-2-yl]-benzene-1,4-diamine [29];~~
~~(4-Fluoro-phenyl)-[4 (2-methoxy-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-amine [34];~~
~~[4 (2-Methoxy-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-methyl-3-nitro-phenyl)-amine [42];~~

2-Chloro-N-{4-methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-yl}-acetamide [60]; and

2-Chloro-N-{5-[2-(4-fluoro-phenylamino)-pyrimidin-4-yl]-4-methyl-thiazol-2-yl}-acetamide [61], or a pharmaceutically acceptable salt thereof.

4. **(Currently Amended)** A compound according to claim 2, selected from the following:

[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-nitro-phenyl)-amine [1];

[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-chloro-phenyl)-amine [9];

[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-iodo-phenyl)-amine [10];

[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-bromo-phenyl)-amine [16];

~~N⁴-[4-(2,4-Dimethyl-thiazol-5-yl)-pyrimidin-2-yl]-N¹,N¹-dimethyl-2-nitro-benzene-1,4-diamine [25];~~

~~2-[N-(4-N,N-Dimethylamino-3-chlorophenyl)]-4-(2,4-dimethylthiazol-5-yl)-pyrimidineamine [26];~~

~~4-[4-(2-Methoxy-4-methyl-thiazol-5-yl)-pyrimidin-2-ylamino]-phenol [31];~~

~~[4-(2-Methoxy-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-nitro-phenyl)-amine [32];~~

N-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-yl}-methanesulfonamide [56]; and

2-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-ylamino}-ethanol [58] or a pharmaceutically acceptable salt thereof.

5. **(Currently Amended)** The compound of claim 4, wherein said compound is ~~[4-(2-Methoxy-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-nitro-phenyl)-amine [32]~~ or 2-{4-Methyl-5-[2-(3-nitro-phenyl amino)-pyrimidin-4-yl]-thiazol-2-ylamino}-ethanol [58] or a pharmaceutically acceptable salt thereof.

6. **(Currently Amended)** A compound selected from the group consisting of:

[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-nitro-phenyl)-amine [1];

[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-trifluoromethyl-phenyl)-amine [7];

[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-methoxy-phenyl)-amine [8];

[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-chloro-phenyl)-amine [9];

[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-iodo-phenyl)-amine [10];

[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-iodo-phenyl)-amine [11];

[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-fluoro-phenyl)-amine [12];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-bromo-phenyl)-amine [16];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-bromo-phenyl)-amine [17];
N-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-yl}-
methanesulfonamide [56];
2-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-ylamino}-ethanol
[58];
2-{5-[2-(4-Fluoro-phenylamino)-pyrimidin-4-yl]-4-methyl-thiazol-2-ylamino}-ethanol
[59];
2-Chloro-N-{4-methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-yl}-
acetamide [60];
2-Chloro-N-{5-[2-(4-fluoro-phenylamino)-pyrimidin-4-yl]-4-methyl-thiazol-2-yl}-
acetamide [61];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(4-nitro-phenyl)-amine [63];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(phenyl)-amine [64]; and
4-[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-benzenesulfonic acid [65]; or a
pharmaceutically acceptable salt thereof and
~~4-[4-(2,4-Dimethyl-thiazol-5-yl)-pyrimidin-2-ylamino]-benzenesulfonic acid [66].~~

7. **(Currently Amended)** A compound according to claim 6 selected from the group consisting of:

[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-nitro-phenyl)-amine [1];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-chloro-phenyl)-amine [9];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-iodo-phenyl)-amine [10];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-bromo-phenyl)-amine [16];
N-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-yl}-
methanesulfonamide [56];
2-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-ylamino}-ethanol
[58];
2-Chloro-N-{4-methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-yl}-
acetamide [60]; and
2-Chloro-N-{5-[2-(4-fluoro-phenylamino)-pyrimidin-4-yl]-4-methyl-thiazol-2-yl}-
acetamide [61]; or a pharmaceutically acceptable salt thereof.

8. **(Currently Amended)** A compound according to claim 7 which is selected from the group consisting of 2-Chloro-N-{4-methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-yl}-acetamide [60]; and 2-Chloro-N-{5-[2-(4-fluoro-phenylamino)-pyrimidin-4-yl]-4-methyl-thiazol-2-yl}-acetamide [61]; or a pharmaceutically acceptable salt thereof.
9. **(Currently Amended)** A compound according to claim 7 which is selected from the group consisting of:
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-nitro-phenyl)-amine [1];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-chloro-phenyl)-amine [9];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-iodo-phenyl)-amine [10];
[4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-bromo-phenyl)-amine [16];
N-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-yl}-methanesulfonamide [56]; and
2-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-ylamino}-ethanol [58]; or a pharmaceutically acceptable salt thereof.
10. **(Currently Amended)** A compound according to claim 9 which is selected from the group consisting of:
[4-(2-amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-nitro-phenyl)-amine [1];
N-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-yl}-methanesulfonamide [56]; and
2-{4-Methyl-5-[2-(3-nitro-phenylamino)-pyrimidin-4-yl]-thiazol-2-ylamino}-ethanol [58]; or a pharmaceutically acceptable salt thereof.
11. **(Currently Amended)** A compound according to claim 9 which is [4-(2-Amino-4-methyl-thiazol-5-yl)-pyrimidin-2-yl]-(3-nitro-phenyl)-amine [1]; or a pharmaceutically acceptable salt thereof.
12. **(Original)** A pharmaceutical composition comprising a compound according to claim 1 or 6, or a pharmaceutically acceptable salt thereof, together with a pharmaceutically acceptable diluent, excipient or carrier.
13. **(Original)** A pharmaceutical composition according to claim 12 which further comprises one or more other anticancer agents.

14. **(Original)** A method for treating a proliferative disorder in a subject, comprising administering one or more compound of claim 1 or 6, or a pharmaceutically acceptable salt thereof, to a subject, such that the subject is treated for a proliferative disorder.
15. **(Original)** The method of claim 14, wherein the proliferative disorder is cancer or leukaemia.
16. **(Original)** The method of claim 14, wherein said one or more compounds are administered in an amount sufficient to inhibit at least one CDK enzyme.
17. **(Original)** The method of claim 16 wherein the CDK enzyme is CDK2 or CDK4.
18. **(Cancelled).**
19. **(Currently Amended)** ~~Use according to~~ The method of claim 14, wherein said compound is administered in combination with one or more other anticancer agents.
20. **(New)** The method of claim 14, wherein said proliferative disorder is lung cancer.
21. **(New)** The method of claim 14, wherein said proliferative disorder is colon cancer.
22. **(New)** The method of claim 14, wherein said proliferative disorder is bone cancer.